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09/981,734	10/19/2001	Tsuyoshi Tamura	110927	6121

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OLIFF & BERRIDGE, PLC
P.O. BOX 19928
ALEXANDRIA, VA 22320

[REDACTED] EXAMINER

MONDT, JOHANNES P

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

2826

DATE MAILED: 05/22/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/981,734

Applicant(s)

TAMURA ET AL.

Examiner

Johannes P Mondt

Art Unit

2826

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 04 March 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-24 is/are pending in the application.

4a) Of the above claim(s) 16-21 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-15 and 22-24 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.

4) Interview Summary (PTO-413) Paper No(s) _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____.

DETAILED ACTION

Response to Amendment

Amendment A filed 03/04/03 and entered as Paper No. 11 forms the basis of this office action. In Amendment A Applicant amended claims 1-3 and added new claims 22-24. Comments on Applicant's Remarks in said Amendment A are included below under "Response to Arguments".

Response to Arguments

Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. **Claims 1-15** are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. In particular, the according to the language of claims 1 and 3, various types of multiplexed data in the input terminal (lines 3-6) are demultiplexed into a single type of

demultiplexed data to form compressed data which said compressed data are input into the input terminal (lines 5-7). The specification does not disclose data in the input terminal that are input once more into said input terminal. Once said data have been transferred to the input terminal, further transfer to the input terminal is neither possible, needed, nor is such second time input disclosed or shown to be functional. In claim 2 the same statement is made with regard to the uncompressed data (lines 4-5) as in claims 1 and 3 for the various types of multiplexed data and hence the same ground for rejection applies to claim 2. Claims 4-15 are rejected under 35 USC 112, first paragraph, because they depend on claims 1-3 rejected under 35 USC 112, first paragraph.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. ***Claims 1-12*** are rejected under 35 U.S.C. 102(b) as being anticipated by Yasuda et al. (5,889,549).

As to claim 1, Yasuda et al. disclose a semiconductor based video interface device having all of the claimed subject matter.

- A. "an input terminal to ... input to the input terminal" is met by separating multiplexer 14;
- B. "a decompression section ... compressed data" is met by video decoder 6b;
- C. "an output terminal ... the output device" is met by video input/output interface 3.

As to claim 2, Yasuda disclose video input interface having all of the claimed subject matter.

- A. "an input terminal to ... input to the input terminal" is met by video input/output interface 3;
- B. "a compression section ...uncompressed data" is met by video coder 6a;
- C. "an output terminal ... the output device" is met by separating multiplexer 14.

As to claim 3, Yasuda et al. disclose a semiconductor based video interface device having all of the claimed subject matter.

- A. "an input terminal to ... input to the input terminal" is met by separating multiplexer 14;
- B. "a decompression section ... compressed data" is met by video decoder 6b;
- C. "an output terminal ... the output device" is met by video input/output interface 3.

As to claims 4 and 6, Yasuda et al. teach signal input to separating multiplexer 15 from interface 16 is multiplexed compressed video and audio data. Yasuda also teaches that video decoder 6b decompresses the demultiplexed video data.

Regarding claim 5, Yasuda et al teach that separating multiplexer 15 combines the compressed video and audio data.

As to claims 7-12, Yasuda et al teach that the video is compressed according to the H.261 standard.

4. **Claims 1-15** are rejected under 35 U.S.C. 102(b) as being anticipated by Nakaya et al. (6,028,631).

As to claim 1, Nakaya et al. disclose a semiconductor based video interface device having all of the claimed subject matter.

- A. "an input terminal to ... input to the input terminal" is met by demultiplexing circuit 122;
- B. "a decompression section ... compressed data" is met by image decoding section 117;
- C. "an output terminal ... the output device" is met by D/A 108.

As to claim 2, Nakaya et al. disclose video input interface having all of the claimed subject matter.

- A. "an input terminal to ... input to the input terminal" A/D 106;
- B. "a compression section ... uncompressed data" is met by image encoding section 112;

C. "an output terminal ... the output device" is met by multiplexing circuit 121.

As to claim 3, Nakaya et al. disclose a semiconductor based video interface device having all of the claimed subject matter.

A. "an input terminal to ... input to the input terminal" is met by demultiplexing circuit 122;

B. "a decompression section ... compressed data" is met by image decoding section 117;

C. "an output terminal ... the output device" is met by D/A 108.

As to claims 4 and 6, Nakaya et al. teach that signal input to demultiplexing circuit 122 from channel decoding section 122 is multiplexed compressed video and audio data. Nakaya et al. also teach that image decoding section 122 decompresses the demultiplexed video data.

Regarding claim 5, Nakaya et al teach that multiplexing circuit 121 combines the compressed video and audio data.

As to claims 7-15, Nakaya et al teach that the video is compressed according to the H.261, MPEG1 or MPEG2 standards.

5. **Claims 22 and 24** are rejected under 35 U.S.C. 102(e) as being anticipated by Shimamoto et al. (6,147,712).

As to claim 22, Shimamoto et al disclose a video processing system having all of the claimed subject matter.

A. "a first input terminal ... data is input" is met by input terminal 1;

- B. "a decoder which ... data" is met by video decoder 5;
- C. "a RAM ... the decoder" is met by frame memory 6;
- D. "a driving section which is connected to an electrode of the display section" is met by conversion filter 8 and D/A 9 which are connected to monitor 10 which inherently contains a plurality of electrodes.
- E. "a controller which ... driving section" is met by sync signal generator 11 and frame rate controller 7.

As to claim 24, Shimamoto et al disclose a video processing system having all of the claimed subject matter.

- A. "a input terminal ... data is input" is met by input terminal 1;
- B. "a decoder which ... data" is met by video decoder 5;
- C. "a RAM ... the decoder" is met by frame memory 6;
- D. "a driver which is connected to an electrode of the display section" is met by conversion filter 8 and D/A 9 which are connected to monitor 10 which inherently contains a plurality of electrodes.
- E. "a controller which ... driving section" is met by sync signal generator 11 and frame rate controller 7.
- F. "wherein the same decoded data is ... into the RAM" is disclosed in Col. 7 lines 33-36.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shimamoto et al. (6,147,712) in view of Komi et al (6,477,185).

As to claim 23 Shimamoto et al. discloses all of the claimed subject matter (see the rejection of claim 22 for details) except for a second input terminal the receives text data.

In a similar MPEG based video system, Komi et al teach the text data is transmitted along with the video and audio data. This text data is used for on screen displays such as program guide, teletext and karaoke.

It would have been obvious to combine the text functionality of Komi et al. with the system of Shimamoto et al, because it would increase its functionality and make it more commercially desirable.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johannes P Mondt whose telephone number is 703-306-0531. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 703-308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

JPM
May 15, 2003

NATHAN J. FLYNN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

